Ozone SIPS: LANCE Ozone element

About OMI SIPS

LANCE-OMI provides certain OMI Level 2 and Level 3 products on a near real-time basis. On average, the Level 2 products are available within 3.5 hours of the observation time.

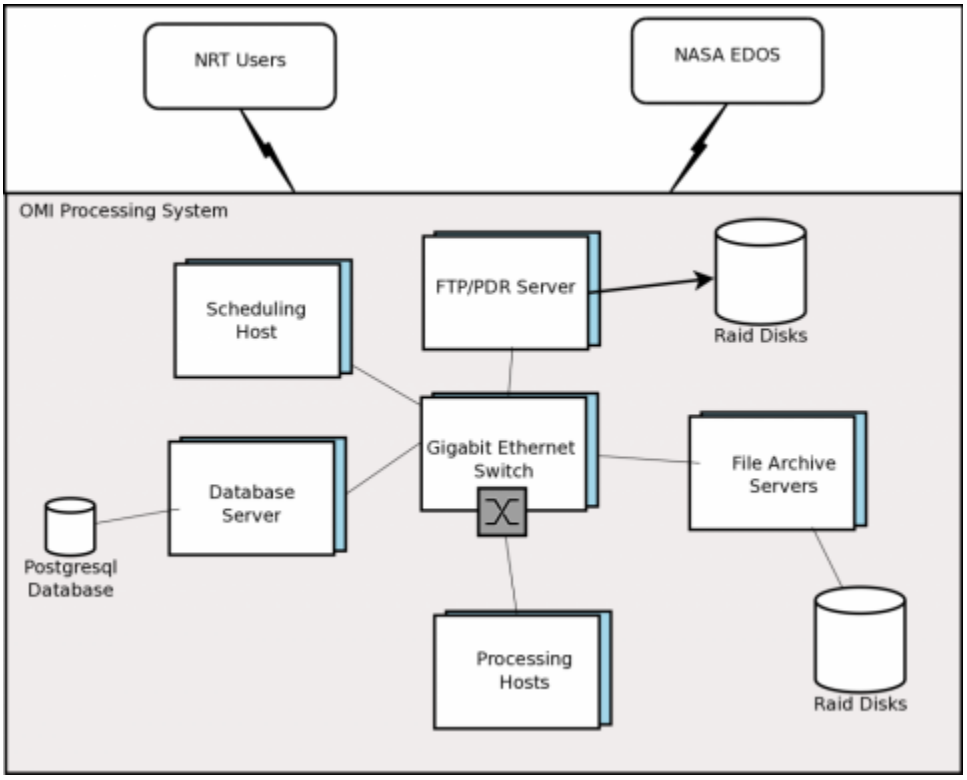
About OMI SIPS

The Ozone Monitoring Instrument (OMI) is a Dutch-Finnish instrument on board NASA's Aura Satellite, launched in July 2004. OMI is a wide swath, nadir viewing, near-UV and visible spectrograph that measures ozone columns and profiles, aerosols, clouds, surface ultraviolet (UV) irradiance, and the trace gases Nitrogen Dioxide (NO2), Sulfuric Dioxide (SO2), and Formaldehyde (OHCLO). The OMI Near Real-Time (NRT) capability is a joint development of NASA and the Royal Netherlands Meteorological Institute (KNMI).

LANCE-OMI provides certain OMI Level 2 and Level 3 products on a near real-time basis. On average, the Level 2 products are available within 3.5 hours of the observation time. The products are available on either FTP server:omisips1.omisips.eosdis.nasa.gov or ominrt2.omisips.eosdis.nasa.gov and from the LANCE OMI Near Real-Time Products page on the Ozone & Air Quality website and from NASA's Worldview data viualization tool.

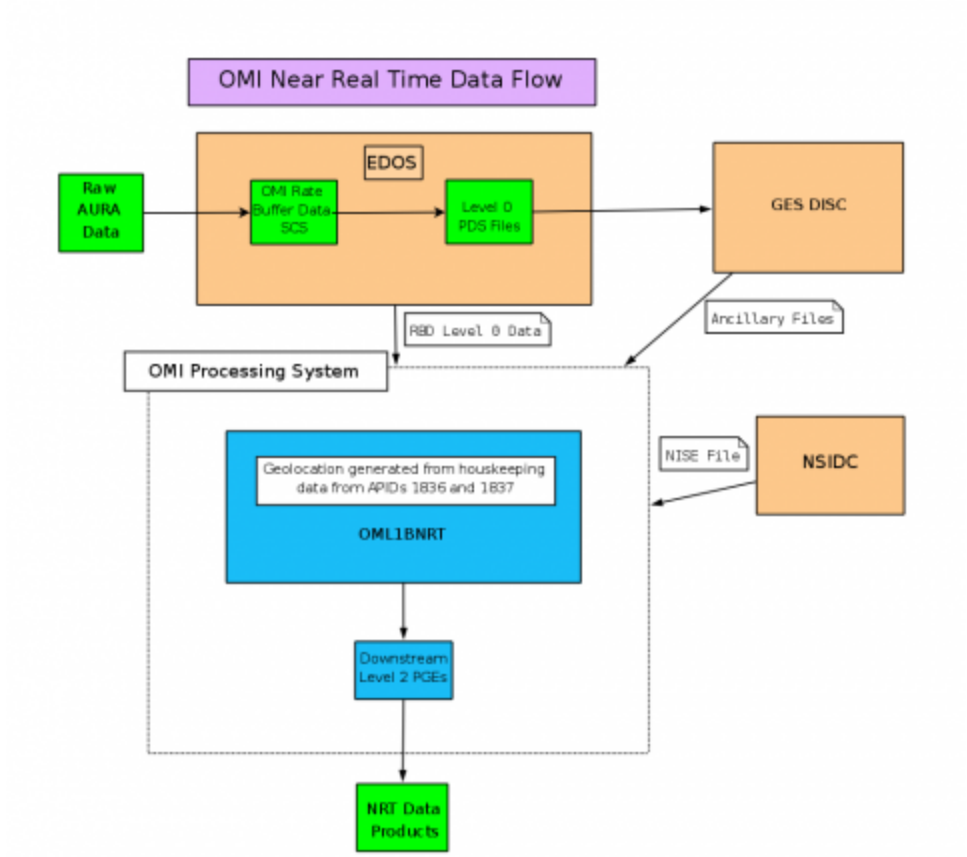
System Reliability

OMI SIPS Hardware Configuration



The simple architecture used for LANCE-OMI is shown in the diagram above. The system includes 2TB of archive disk on the FTP server. The latter allows the archive of approximately 7 data days of NRT data products.

Data Flows



About OMI SIPS Data Flow

The data flow is shown in the diagram above. The session based Level 0 (L0) data for OMI are ingested from EDOS. These are preprocessed by OML1BRBD APP which removes duplicate packets, removes incorrectly time tagged data before processing by the L1B software. All EDOS data products are sent to the PDR server by EDOS and are ingested from there by LANCE-OMI.

Algorithms

Product	Version
OML1BRBD	1.1.3
OMAERUV	1.1.6
OMTO3	2.2.1
OMSO2NRT	1.1.6
OMTO3eNRT	0.9.60.1
OMSO2eNRT	0.9.37.1

Support

Subscription Services

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Access OMI SIPS Data

- FTP Site 1
- FTP Site 2
- User Registration (Required to access data)